INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

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repaired electric power station	g with ORGRES, an organization which constructed as throughout the USSR and had offices in Moscow. about the organization's personnel, operations, a organizational chart.	
contains information on the pla	g with the ZIL Automobile Plant in Moscow and nt's products, machine and assembly shop, raw ation, security, safety measures, and production	
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CENTRAL INTELLIGENCE AGENCY

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Attachment 3 is a report dealing with ORGRES, a repaired electric power stations throughout the The report contains information about the organ interests as well as an	HSSR and had officer in War.
Attachment 4 is a report dealing with the ZIL Au contains information on the plant's products, m materials, utilities, transportation, security, deficiencies.	achine and agreeble at
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ZIL AUTOMOBILE PLANT

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•	The Control	Z T 7.	Ant	cinc.	3 47		1

1. The ZIL Automobile Plant, also called Likhachov and formerly known as the Stalin Plant, was subordinate to the Ministry of Automobile Industry. It was located in the southeastern section of Boscow on Autozawodskaya ulitsa. Nearby were the Novodsniloskiy bridge and the station of the Euchukhovo (sic) railroad, a siding of which ran through the plant premises. The area was surrounded by a two-meter-high wooden fence. Two-meter-high iron gratings were located at each of the three entrances, two of which were on Autozawodskaya ulitsa; the other faced the bridge.

25X1

about 1946 an unidentified building had caved in, causing considerable designs.

Products

2. The ZIL plant produced straight eight-cylinder internal combustion engines, referred to as model ZIS-110. In one building, which was new, buses were manufactured shop manufactured cylinder blocks, tie rods, crankshafts, pistons, transmission gear boxes, magnetos, and other parts might be clutches and differentials. The transmission drive shafts were not made in shop. Light engines and parts were almost exact copies of US Packard engines. About 1951 the plant started to make parts for electric refrigerators.

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Machine and Assembly Shop

made engines for ZIS-110 light automobiles. It was located in an old one-story rectangular red brick building with a saw-toothed roof, the slopes of which were covered with sheet metal, supported by steel beams. The floor was made of hexagonal wooden blocks. There was no basement. The shop used lathes, milling machines, truing machines, planes, saws, drills, and other machinery.

The majority was of foreign manufacture.

25X1

25X1

some of Grechoslovak, and German menufacture. The machinery was old and dirty but was well-cared for. The building contained a tool storeroom. The tolerance used for crankshafts was .02 centimeters:

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engines produced was small because the plant did not use the assemblyline system for making parts but only for their assembly.

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were not packed, but were conveyed to other shops. Engines were handled by truck or electric cart.

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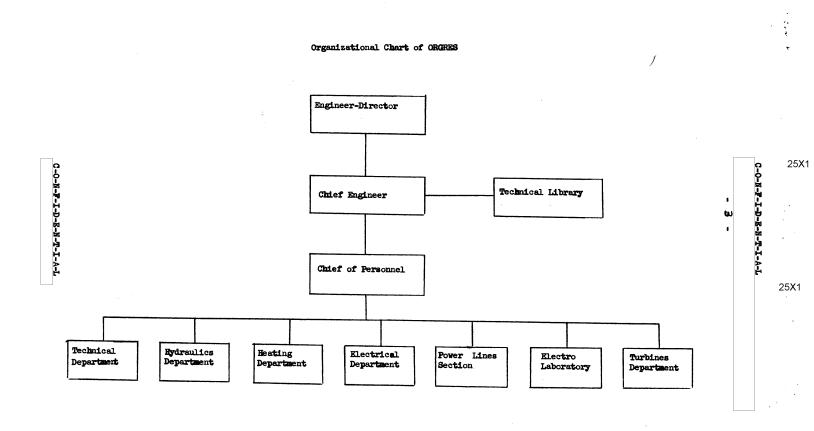
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Raw Materials		
	f blocks, machine housings, cylinders, crankshafts om the foundry and finished in the Machine and raw materials.	2
	were not imported from other countries.	2
the majority	arrived by rail.	_
Utilities		
Drinking water and e	lectricity used by the plant came from unidentified	
supplies.	shop used 360]
voltage.	area jour	
Transportation		
	ation was by means of an old-type three-drive-axle	
Security		
Secret police guards entrances and inside to check propusks on discretion of the sh	, sometimes armed with rifles, were stationed at the premises. Two guards were posted at the entrance entering and leaving the plant. Sometimes, at the ep chief or director, a pass was required at entrances ese measures were intermittently relaxed and enforced.	i
Secret police guards entrances and inside to check propusks on discretion of the sh to certain shops; th	the premises. Two guards were posted at the entrance entering and leaving the plant. Sometimes, at the op chief or director, a pass was required at entrances	i
Secret police guards entrances and inside to check prepulses on discretion of the sh to certain shops; the Sefety Measures	the premises. Two guards were posted at the entrance entering and leaving the plant. Sometimes, at the op chief or director, a pass was required at entrances ese measures were intermittently relaxed and enforced.	i
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Secret police guards entrances and inside to check prepulse on discretion of the she to certain shops; the Safety Measures A fire brigade existe precartions effect by the Army. Production Deficiency	the premises. Two guards were posted at the entrance entering and leaving the plant. Sometimes, at the ep chief or director, a pass was required at entrances are measures were intermittently relaxed and enforced. ed during World War II were put into	i
Secret police guards entrances and inside to check propusks on discretion of the sh to certain shops; the Safety Measures A fire brigade exist precartions effect by the Army. Production Deficience cars, as well as tele	the premises. Two guards were posted at the entrance entering and leaving the plant. Sometimes, at the op chief or director, a pass was required at entrances are measures were intermittently relaxed and enforced. ed during World War II were put into ies and Promotion the production norm was not excessive. However, evision and refrigerators, were being made available of persons.	i
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Secret police guards entrances and inside to check propusks on discretion of the sh to certain shops; the Safety Measures A fire brigade exist precautions effect by the Army. Production Deficience to a greater number of industry. On some distill for want of met	the premises. Two guards were posted at the entrance entering and leaving the plant. Sometimes, at the op chief or director, a pass was required at entrances are measures were intermittently relaxed and enforced. ed during World War II were put into ies and Promotion the production norm was not excessive. However, evision and refrigerators, were being made available of persons. some defects existed within the sys plant production would almost come to a stand-terials and on other days personnel had to work	i
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C-O-N-F-I-D-E-N-T-I-A-L

RE:	S, A CONCERN WHICH CONSTRUCTED AND REPAIRED ELECTRIC POWER STATIONS	25X1
••	ORGRES, a concern which constructed and repaired electric power stations throughout the Soviet Union, had offices located on Kukuiskiy perculck 2, Bauman rayon, Moscow; telegraphic address unknown. ORGRES, which was subordinate to the Ministry of Electric Power stations, employed some 600 engineers and technicians and dispatched them to power plants anywhere in the USSR to repair and modernize the plant machinery. ORGRES received more than 150 different technical magazines from France, Germany, Great Britain, and the United States, and these were kept on file in its technical library. The concern performed research on new systems which were written up in the foreign technical magazines and many of its en-	
	gineers joined delegations which traveled abroad, to and Czechoslovakia, for example.	2
• [Among the more important and highly-valued foreign publications, pited Elektrotechnik from Germany, Mechanical Engineer and Popular Mechanics from the United States, and Engineer from Great	2
	Britain; also a French publication Houille Blanche and another US periodical, Mechanical Chemistry. All the publications were highly prized by the Soviet engineers who referred to them frequently and even tried to adopt some of the modern methods and systems	
	described in them. Soviet engineers displayed considerable interest in articles dealing with the erection of electric power lines in cold regions; they sought a method which would prevent ice from accumulating	25
	on electric cables. Many articles, moreover, were translated by the engineers and published in Soviet magazines, and the most important and interesting of the translated articles were printed, bound, and deposited in the ORGRES library archives for reference purposes.	25X
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		MALENKOV VALVE	and stopcock plant	
1.	was s	Krasnoselskaya Mala ulitsa a	Machine Building. It was located be- nd the Kazan railroad near the Komsomol It was serviced by the No. 40 bus.	25X1
	-4044	this plant Va	not known by any other name or numerical	25X1
	desig	nation. It was closed in 1959	5 when it was converted into a technical	20/(1
	insti	turte. This plant had no secre	et or underground installations The products	25X1 25X1
	weigh manuf	ing about 1.500 kg and the sm	st iron valves and stopcocks, the largest allest about 5 kg. The plant did not ipment. There were 2,000 persons employed, ine workers.	4
2.	The M	alenkov Valve and Stopcock Platheses refer to numbers on	ant was laid out as follows (numbers in sketch of plant):	25V4
	baren	Charact Letel, Ap Homoers on	and the or pressy.	25 X 1
	(1) (2)	Assembly and pattern shops. assembly shop (containing 40 were on the first floor. The living quarters, clubroom, ments section, freight elevar Mackine shop No. 2 and instractions, and shop chief's of ment shop, shop chief's offi-	three light-weight cars and ten trucks. This was a two-story building. The lathes), shop chief and control offices e pattern shop (containing 20 "small lather owie, dining room, control office, instrutor, and repair bench, were on the second ment shop. This was a two-story building machine shop No. 2, the testing and controffice, were on the first floor; the instruce, technologists, control and instruments floor. The following machines were located.	floor.
		Machine shop	Instrument shop	
		1 cutting machine	4 grinders	
		2 planers	17 lathes	
		8 lathes	2 drilling machines	
		3 grinders 1 crane (also used o	n the second floor)	
	(4)	lowing: on the ground floor muard sections; on the secon	three-story building consisting of the for were the personnel, fire squad, and plant d floor were the transportation department and a repair shop; on the third floor were arty, and paymenter offices.	,
	(5a) (5b) (6)	Plant clinic. Living quarters. Machine shop. This was a on	e-story building consisting of a machine g section and washroom. It contained the	
		4 lathes (regular) 2 vertical lathes 1 large lathe 1 shearing machine 1 planer		

CONFIDENTIAL

2 hydraulic meters

 COMFID	ENTIAL		

(7) Repair shop and machine shop No. 1. This was a two-story building consisting of the repair shop, instrument room, work benches, and shop
chief's office on the first floor, and machine shop No. 1, shop chief's
office, instrument room, fitting section, testing section, and washroom
on the second floor. The following machines were located in this building:

Machine shop No. 1

Repair shop

- 15 lathes 9 lathes 1 large lathe 2 planers
- 1 drilling machine 1 milling machine 4 milling machines 2 drilling machines 1 500-kg traveling crane 1 gear cutting machine
- (8) Boiler house. This was a one-story construction.
- (9) Foundry and mold shops. This was a one-story building consisting of the mixing laboratory, finishing shop, shop chief's office, control office, "sed corner" meeting room, carpentry shop, pattern shop, and threading section. The following machines were located in this building:
 - 4 mixing machines
 6 automatic molding machines
 1 mold finishing machine
 2 compressed air molding machines
 1 lathe
 - 2 compressed air molding machines
 2 furnaces
 1 crane
 1 Decauville
 5 thread cutting lathes
 2 traveling cranes
- (10) Compressor shop. This shop had 4 electric compressors.
- (11) Slag dump.
- (12) Storage for raw materials.
- (13) Warehouse for finished products.
- (14) Forge shop. This shop prepared the material needed in the other shops. It contained the following machines:
 - 2 saws
 - 1 crane
 - 1 tempering furnace
 - 4 steam hammers (5,000 kg, 1,500 kg, 2,000 kg, and 1,000 kg capacities)
 - 2 forges
 - 2 drop hammers.
- (15) Electric transformer section.
- (16) Scrap iron crushing machine.
- (17) Gasoline tank and pump.

Foundry

lar-snaped red brick building with high "old style" three-slope roof probably dating back to before the Russian Revolution. It had no basement, was single story, and measured approximately 90 x 50 x 15 meters. At both ends it had mezanines four meters high on which were installed mixers, chutes, and conveyo

mezanines four meters high on which were installed mixers, chutes, and conveyor belts, the administrative and control offices, the carpentry shop, and the mold assembly shop. The shop was not fire-proof. In it valve housings and

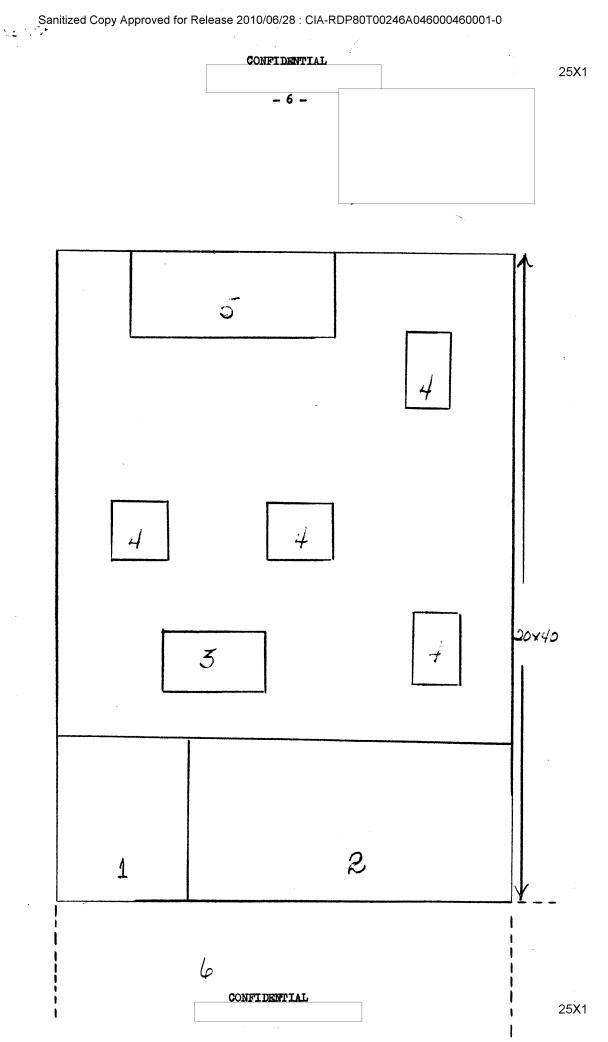
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This was a rectangu-

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	valves or stopcocks of various sizes were cast. These items had no special marks or characteristics. When finished they were gray in color and were then painted blue and black. There were some compressor machines used for preparing and compacting the sand in the molds. There were approximately 12 machines for preparing the various size molds and some mixing machines for crushing and mixing the sand. The mixture was put on a conveyor and taken to the molding machines. The molds were then sent by conveyor to the furnaces. The molten metal was poured from the ladles into the molds by two high-power traveling cranes; one of the cranes was of 1,500 kg capacity and the other of 2,000 kg capacity. The machines in the shop were electrically operated, excepting the molding machines which were operated by compressed air. There were two forced-draught coal furnaces. The shop had two brick smokestacks, each 10 m high. The skylighting system was adequate during the summer months; in winter it was necessary to use electric lighting. The heating system was not adequate. the machines were all made in Saratov, but did not know the trademark, plant name or year of make. The furnaces were old and probably of German manufacture, since the plant had been German during the Tsarist regime. The machines were kept in good condition since they were cleaned and greased at the end of each shift. The mold pressing machines were modern, having arrived new at the plant in 1952. The finished products were transported to the warehouse or from one shop to another in electrically-operate cars. From the warehouse or from one shop to another in electrically-operate cars. From the warehouse, the products were shipped by truck to unidentified destinations. the products were for export as well as for domestic use. The total number of workers employed at this shop was 300, 50 percent of which were women; 75 percent were specialized workers. Production was based on weight rather than on the number of parts, daily production being approximately five t	25X1 d 25X1
	Raw Materials	
4.	The raw materials were iron, copper, bronze, aluminum, coal, mineral oil, grease, gasoline, water, sand, clay, sawdust, and pitch. No materials were imported from foreign countries. Coal, iron, and clay were transported by rail and the other materials by truck. There was a 30-ton reserve of coal, 30 tons of iron, and 20 tons of clay. The plant's daily consumption was six tons of iron, 10 tons of coal, and 10 tons of clay.	
	Water and Power	
5.	There were no water deposits, but an electric pump of unknown capacity was located in the fire house. The plant received an adequate amount of untreated water from Moscow. The plant received an adequate amount of untreated the electric power was supplied from power stations in Moscow since there were only transformers in the plant area. Because the transformers were of low capacity the power supply was inadequate.	25 X 1
	Transportation	
6.	ZIM. Transportation was by rail and truck. The railroad ran along the rear of the plant and loading and unloading was done from platforms by means of cranes. There were no sidings within the plant area.	25X1 25X1
	The cars were two and four-axle cars of 10,000 kg and 22,000 kg capacities and were painted a reddish-ochre color. The locomotives were old and of little power. Railroad traffic was slow except at the beginning and end of the month when production was at its maximum. The highway servicing the plant was Bolshoye Krasnoseleskoye shosse, a stone and concrete highway with good drainage, which was open to traffic at all times. The plant had three light-weight cars and ten three-ton trucks which were made at the Stalin and Gorkiy Plants. The garage had a capacity for five vehicles; it had a small repair shop.	
	Storage	
7.	Approximately 50 tons of coal were stored in a covered area measuring 15 x 10 m;	
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		25 X 1

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		25 X 1
		e"
	30 tons of scrap iron occupied an area $10 \times 10 \text{ m}$, and 20 tons of sand occupied an area $5 \times 5 \text{ m}$. The warehouses were located in the yard and measured $25 \times 8 \times 8 \text{ m}$. These were two joined buildings which were not connected with the railroad. Loading and unloading was done by trucks. There were several cans of mineral oil and acids in unknown quantities.	
	Production Figures	
8.	The average daily production was approximately five tons; maximum production was eight tons; the production norm was five to six tons.	
	Working conditions	
9•	The plant worked two eight-hour shifts; three-fourths of the employees worked during the day and the remainder worked during the night shift. Formerly they worked 48 hours a week but this schedule was later changed to 46 hours a week. The plant did not work on Sundays and holidays and had a 21-day yearly vacation. The plant had good sanitary conditions. There was a plant fire squad and each shop was equipped with fire extinguishing apparatus and sand pails.	25X1
	Security	
10.	Armed guards were stationed around the plant perimeter. A guard was stationed at each entrance and others were kept near the warehouses. Upon entering or leaving the plant a worker presented his pass bearing his photograph, name of section where he worked, and type of work performed. Access to all sections of the plant was permitted. There were no air raid precautions or shelters. During World War II the subway had been used as an air raid shelter.	
	Personnel_	
11.	The plant directors were considered efficient, but relations between the plant administrators and the employees were strained, mainly because the workers did not receive their salaries on time. There was no research department but there was a planning section. Each section had a chief of control and several assistants, and had facilities for testing the finished parts. The foundry personnel consisted of the shop chief (an engineer), a technician, a chief who distributed the work, a chief of control, a secretary, a girl who took the attendance, a girl in charge of the work sheets, a mechanic, six masters, three cleaning women, three lavatory attendants, two foundry technicians, and about 250 workers, some of whom were women. [Following individuals:	25X1
	Filipov, foundry chief.	1
	Sheniya, plant technician.	7
12.	There were no prisoners or foreigners working at the plant. There were no strikes nor was there absenteeism. The work plan was fulfilled satisfactorily and no effort was made to increase production. The plant held DOSAAF meetings un civil defense, but there was lack of enthusiasm and only 30 percent of the workers attended. The Red Cross and Red Crescent also held meetings at the plant.	25X1
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THE HAMMER AND SICKLE METALLURGICAL PLANT IN MOSCOW

General

1. The Hammer and Sickle Metallurgical Flant, formerly called "Guyon", was located on Zolotorozhskiy Val (number unknown), Kalininskiy rayon, Moscow. It was engaged mainly in the manufacture of steel cable of various caliber and metal plate for car bodies and roofs. The plant, which was subordinate to the Ministry of Heavy Industry, did not manufacture or repair military equipment. It comprised eight one-story buildings and four buildings of more than one story; the plant perimeter measured about 15 kilometers. Surrounding the plant was a two-and-a-half-meter-high wooden fence which rested on a half-meter-high concrete base; the fence was painted green. There were five entrances to the plant. On the north, the plant area was bounded by Zolotorozhskiy Val; on the east, by several railroad lines which were used to transport freight to various plants in Moscow; on the south, by Entuziastov shosse; on the west, by a steel bridge which connected Zolotorozhskiy Val and Entuziastov shosse (see sketch on page 7). None of the plant buildings were of recent construction.

25X1

Buildings and Installations

2. Set forth below are descriptions of the buildings which made up the plant.

The numbers in parentheses below correspond to the numbers which appear on sketch of plant layout on page 7.

25X1

- (1) Compressor station. This was a three-story, rectangular-shaped, tinroofed, fireproof, brick building measuring 25 x 10 x 2.8 meters.

 It had a partial basement occupying about one-fourth of the building
 site, where the shower stalls for plant personnel were housed. On
 the ground floor were installed two German-make compressors in good
 repair which supplied compressed air to shops numbered 10, 11, and
 12 on sketch. On the second floor were dressing rooms for plant
 personnel. The administrative offices occupied the third floor.
 About 25 people worked in this building.
- (2) Rolling mill. This was a two-story, tin-ropfed, rectangular-shaped, concrete building without a basement; ________it was fire-proof. The shop produced iron and steel plate (quantity unknown) which were used to make the bodies and tops of vehicles. The plate wasted in thickness from one to three millimeters and measured 1 x .80 meters. The machinery used in the shop was old and poorly maintained. Between 800 and 900 workers were employed in this building.

25X1

(3) Plant clinic. This was a two-story, tin-roofed, fireproof, rectangular-shaped brick building, measuring 50 x 5 x 4 meters; it had a basement where the health records of the workers were filed. The clinic was modernly equipped with such apparatus as X-ray, and electrotherapy and gas-therapy appliances. The nursing and medical staff consisted of about 50 nurses and 30 doctors, including heart and lung specialists, cancer specialists, eye-ear-nost, and throat specialists, and specialists in venereal diseases.

C-O-N-F-I-D-E-N-T-I-A-L

25X1

C-O-N-F-I-D-E-N-T-I-A-L

- 3 -

- (4) Foundry. This was a one-story, tin-roofed, fireproof, rectangular-shaped, concrete building with a basement. It was equipped with four Soviet-make Martin Siemens furnaces which were in good repair. Daily production of each furnace was three or four batches of ingots, each batch weighing about 74 metric tons. Three of the furnaces were in constant use. The foundry employed about 700 workers.
- (5) Wire-drawing shop. This was a one-story, tin-roofed, rectangular-shaped, fireproof brick building without a basement. The shop produced wire, from one to three millimeters in thickness, by the cold mrocess. The machinery was old and poorly maintained.

25X1

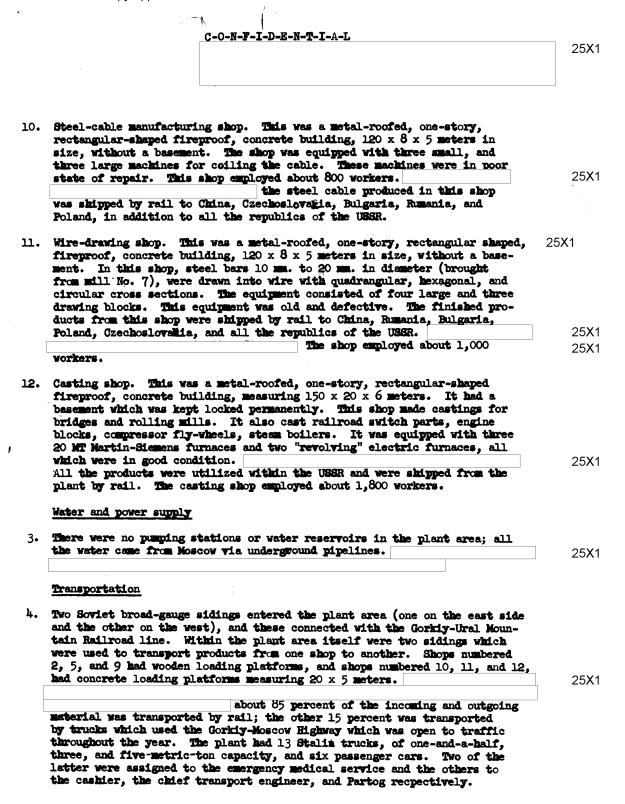
in this shop. The wire was transferred from this shop to shop No. 10 (see below) for finishing.

- (6) This was a square, four-story, fireproof, concrete building (dimensions unknown) with a basement where the heating boilers were installed. The first floor housed a machine shop which contained the following Soviet-make equipment: a universal lathe, an electric saw, a shearing device, a drilling machine, a polishing machine, and a milling machine. All the machinery was in good state of repair. On the second floor was the technical library from which employees could borrow technical books for reference purposes. On the third floor was a laboratory equipped with various kinds of precision apparatus for measuring and snalyzing steel wire. Located on the fourth floor was the plant hospital, with room for 50 patients. About 500 employees worked in this building.
- (7) Rolling mill. This was a one-story, tin-roofed, rectangular-shaped, fireproof, concrete building without a basement. Here the iron and steel ingots brought in from the foundry were rolled into plates and bars of varying thicknesses. The shop had four mills: (a) a type 750, which produced plates of 450, 300, and 250 millimeters in thickness; (b) a type 450, which produced quadrangular, round, and hexagonal-shaped steel cable; (c) type 300, which produced wire eight to twelve millimeters in dismeter and type 250, which produced wire three to five millimeters in dismeter. All the mills were old and in poor repair. The production figures are not known, but all of the products produced by the type 750 and 250 mills were utilized within the plant, whereas a small amount of the products of the other two mills were shipped outside of the plant by train or truck. The shop employed about 2,000 workers.
- (8) Machine repair shop. This was a tin-roofed, one-story, rectangular-shaped, fireproof, brick building without a basement. All the plant machinery was repaired in this shop, which contained the following machinery: a small Krasnyy Proletariy lathe, a mechanical saw and a small drilling machine of Soviet-make, a grinding machine, a polishing machine, and a forge. All the machinery in the shop was well-maintained. The shop employed 25 workers, including an electrical engineer, who was the chief of the shop, two master electricians, four assistant electricians, six expert welders, six fitters, a boiler operator, a lathe operator, and four unskilled workers.
- (9) Machine shop. This was a tin-roofed, one-story, rectangular-shaped, fireproof, concrete building without a basement. Rollers and washers, for use within the plant itself, were manufactured in the machine shop which had the following machinery: 40 lathes of various calibers, 15 milling machines, eight drilling machines, and four large and three small planers. The machinery was of Soviet and German make and poorly maintained.

 The shop employed about 500 workers.

25X1

C-O-N-F-I-D-E-N-T-I-A-L



	C-O-H-E-T-D-E-H-8-T-Y-E	
		2
•		
Miscellaneous Operati	onal Information	J
The plant employed abmen; no prison labor		2
	All the raw material (lime, cement, paint, coal, and gas) came from the Soviet Union and about shipped to the plant by rail. The plant had only	2
open storage faciliti	es, and most of the raw material was delivered where it was utilized.	2
	rial or machinery and no difficulties were experienced rage amount of good quality products.	
	ade no effort to step up the plant's production.	2
In 1956, plans were b and the casting shop for the foundry. Bec	ceing made to enlarge the wire calibrating shop (No. 11 (No. 12) and to enlarge and provide an outside exit)
were also in the maki city of Moscow	ng to transfer it to a location far removed from the the plant was not suitable	2
for and could not be	converted to military production.	2
Personnel Welfare and	Working Conditions	
shift schedule, from The following holiday	worked every day except Sundays on an eight-hour, three 0800 to 1600, from 1600 to 2400, and from 2400 to 0800 we were non-working days: First and 5th January, 8th	
rolling mill, and the of one month and all	y, and 8th November. Workers in the foundry, the air compressor station received an annual vacation other employees, 24 days. They all received their	25
vacation pay in advan no absenteeism, and	ce. Strikes never occurred in the plant, there was	2
Plant Security		•
access to all shops)	were taken within the plant (the employees had free or in the immediate surrounding area. Guards were	•
order to enter and le without badges, guard	at entrances, however, and a <u>propusk</u> was required in eave the plant. Employees, garbed in black uniforms led the railroad entrances which led into the plant	
75 guards in the plan	ing shop (No. 12 on sketch). There were a total of it, 20 of whom were on permanent service; they were	
armed with rifles. T	the plant had no fire station, but there were fire tes, and fire extinguishers (one extinguisher for	
each ten-square-meter	area) on the premises. From time to time members ation visited the plant. There was no air raid	•
defense system; howev	ver, two air raid shelters were located in the dings housing the plant clinic (No. 3 on sketch)	
and the casting shop	(No. 12 on sketch). First aid stations were located 4, 5, 6, 7, 9, 10, and 12.	
Plant Organization an	d Soviet Personalities	
The director of the p	lant was Ulin	2
Directly subor	dinate to him were the chief engineer, the head of	
	the plant's Communist Party leader. Two Soviets	,
HON HATTER THE BITS	MCTG:	2
	C-O-N-F-I-D-E-N-T-I-A-L	
		2

C-O-N-F-I-D-E-N-T-I-A-L	25X1
Invenchev, Kikolai the chief engineer in the	e compressor station.
Ermolayev (fnu) the chief engineer in the wi	
	20/(1

